(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 14 November 2002 (14.11.2002)

PCT

(10) International Publication Number WO 02/091807 A1

(51) International Patent Classification7:

H05G 2/00

•

(21) International Application Number: PCT/GB02/02063

(22) International Filing Date: 3 May 2002 (03.05.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0111204.4

8 May 2001 (08.05.2001) G

(71) Applicant (for all designated States except US): POW-ERLASE LIMITED [GB/GB]; Imperial House, Link 10, Napier Way, Crawley, West Sussex RH10 9RA (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TAYLOR, Alan [GB/GB]; Powerlase Limited, Imperial House, Link 10, Napier Way, Crawley, West Sussex RH10 9RA (GB). KLUG, David [GB/GB]; Powerlase Limited, Imperial House, Link 10, Napier Way, Crawley, West Sussex RH10 9RA (GB). BARNETT, Christopher [GB/GB]; Powerlase Limited, Imperial House, Link 10, Napier Way, Crawley, West Sussex RH10 9RA (GB). MERCER, Ian [GB/GB]; Powerlase Limited, Imperial House, Link 10, Napier Way, Crawley, West Sussex RH10 9RA (GB).

(74) Agents: ROBERTS, Gwilym, Vaughan et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

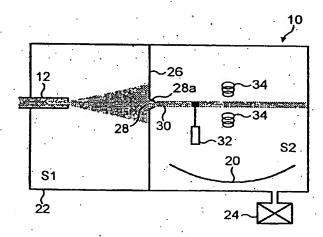
Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HIGH FLUX, HIGH ENERGY PHOTON SOURCE



(57) Abstract: A high energy photon source for generating EUV radiation comprises a nozzle emitting a supersonic stream of source material, a laser or electrical/magnetic pre-ionisation mechanism and a laser or electrical/magnetic excitation mechanism and a skimmer plate between them providing a collimated high density beam of source material for excitation.

0.001807 41